

Client
YPF

YPF Service Stations Argentina and Peru

Location
Argentina and Peru

Contract Value

Project Completion

CH2M HILL Role



YPF, one of the largest companies in Argentina, entered the highly competitive gasoline service station market by creating a new image.

They constructed up to 500 service stations and modernized another 2,500 stations in Argentina and around the world. CH2M HILL Lockwood Greene, partnering with our subsidiary Altécnica, proposed an innovative state-of-the-art solution to enhance and organize the design process by developing a specialized application software.

Program Elements

- **Modular Design Phase**—The service station design was broken into over 500 modules, and over 1,200 drawings were entered into a database, providing design flexibility which adapted to different environments and locations.
- **Prototype Development**—Once a specific station layout is chosen, the system selects and displays only the appropriate modules. After the layout is approved, the system automatically creates a prototype, drastically reducing design effort and cycle time.
- **Phase**—The automated system is used to generate, organize, house, and print the master information for the station design modules, cost data, bid documentation, and construction, enhancing the organization of the design process and its speed.
- **On-line Access**—The automated database allows clients on-line access to the information, enabling them to review the design layout in real time, thus shortening the approval cycle.
- The use of this software helped YPF increase its access and gain speed to global markets, added value to satisfy their customers' demands, and created flexibility to adjust to market changes.

Features

The software package utilizes an Oracle relational database running on a Novell network with GUPTA (SQL Windows) performing as the data server. The application has a built-in on-line interface to AutoCad, MS Word, MS Excel, and MS E-Mail. A user friendly menu in Spanish was developed, and the entire automation concept was built for simplicity with the user in mind.

The American Consulting Engineers Council (ACEC) presented CH2M HILL Lockwood Greene with an Engineering Excellence Award for its work on the YPF project.